

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 FAY 420-9210 (509) 924-9200

924-9290 (503) 906-9200

FAX 906-9210 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: M106067

CLIENT: BRISTOL					INVO	ICE TO):								TURN	IAROUNI	D REQUEST in Bus	iness Da	ys*
REPORT TO: AME	KRANAV	NETTE	R		BR	151	OL	metre.									nic & Inorganic Analyses	1	
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PHONE: 907.770	0974	FAX:	70	.097	5 P.O. N	UMBE	R: 2	109						k,	510.		3 2 1	<1	<u> </u>
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PROJECT NUMBER: 2100	10		-	Ed					2 2							ОТН	ER		
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425.420.9200 fax 425.420.9210

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/23/01 15:40. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

Environmental Group Leader

1112

Work Orders included in this report:

M106067



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Project: Amchitka

Project Number: 21090

Reported: 11/02/01 10:21

Anchorage, AK 99502-1116

Bristol Environmental & Engineering

2000 W International Airport C#1

Project Manager: Anne Kranawetter

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMA1T18SL	M106067-01	Soil	06/23/01 11:30	06/23/01 15:40
01AMA1T19SL	M106067-02	Soil	06/23/01 11:35	06/23/01 15:40
01AMA1T20SL	M106067-03	Soil	06/23/01 11:40	06/23/01 15:40

C. O. C. # 104

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported: 11/02/01 10:21

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

Diesel Hydrocarbons (C10-C25) per AK102 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMA1T18SL (M106067-01) Soil					Sampled: 06/	/23/01 Rece	eived: 06/23/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/23/01	06/24/01	0106075	
Surr: 1-Chlorooctadecane	98.1 %	50-150							
Surr: Triacontane	95.1 %	50-150							
01AMA1T19SL (M106067-02) Soil					Sampled: 06/	/23/01 Rece	eived: 06/23/	01	
Diesel Range Organics	580	150	mg/kg dry	1	AK 102	06/23/01	06/24/01	0106075	
Surr: 1-Chlorooctadecane	88.6 %	50-150							
Surr: Triacontane	95.7 %	50-150							

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

Reported: 11/02/01 10:21

BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

/MTI 06/24/01	Analyzed eived: 06/23/0 06/24/01 " " "	Batch 01 0106080 """" """""	Notes
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North Creek Analytical - Mobile Lab



Anchorage, AK 99502-1116

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223

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Bristol Environmental & Engineering 2000 W International Airport C#1 Project Number: 21090

Reported: 11/02/01 10:21

Physical Parameters per APHA/ASTM/EPA Methods

North Creek Analytical - Mobile Lab

Project: Amchitka

Project Manager: Anne Kranawetter

Analyte	Result	Reporting Limit Units	Dilution	Method Prepared Analyzed Batch Notes
01AMA1T18SL (M106067-01) Soil				Sampled: 06/23/01 Received: 06/23/01
% Solids	71.1	0.0100 % by Weigh	t 1	Gravimetric 06/23/01 06/24/01 0106076
01AMA1T19SL (M106067-02) Soil				Sampled: 06/23/01 Received: 06/23/01
% Solids	62.7	0.0100 % by Weigh	t 1	Gravimetric 06/23/01 06/24/01 0106076
01AMA1T20SL (M106067-03) Soil				Sampled: 06/23/01 Received: 06/23/01
% Solids	100	0.0100 % by Weigh	t 1	Gravimetric 06/23/01 06/24/01 0106076

North Creek Analytical - Mobile Lab



%REC

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

Bend

Spike

Source

11/02/01 10:21

RPD

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

Reporting

Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0106075 - 3545 ASE									
Blank (0106075-BLK1)			Prepare	d: 06/23/0	1 Analyz	ed: 06/24/0)1		
Diesel Range Organics	ND	150 mg/kg wet							
Surr: 1-Chlorooctadecane	21.9	"	23.4		93.6	50-150			
Surr: Triacontane	17.6	"	23.4		75.2	50-150			
LCS (0106075-BS1)			Prepare	d: 06/23/0	1 Analyz	ed: 06/24/0)1		
Diesel Range Organics	1310	150 mg/kg wet	1250		105	75-125			
Surr: 1-Chlorooctadecane	29.4	"	23.4		126	50-150			
Surr: Triacontane	20.2	"	23.4		86.3	50-150			

LCS Dup (0106075-BSD1)	Prepared: 06/23/01 Analyzed: 06/24/01						
Diesel Range Organics	1310	150 mg/kg wet	1250	105	75-125	0.00	20
Surr: 1-Chlorooctadecane	27.1	"	23.4	116	50-150		
Surr: Triacontane	19.5	"	23.4	83.3	50-150		

Matrix Spike (0106075-MS1)	Sourc	ce: M106067-01	Prepared: 06/23/01 Analyzed: 06/24/01				
Diesel Range Organics	1820	150 mg/kg dry	1760	ND	98.6	60-140	
Surr: 1-Chlorooctadecane	37.8	"	33.0		115	50-150	
Surr: Triacontane	27.5	"	33.0		83.3	50-150	

North Creek Analytical - Mobile Lab



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92.8

50-150

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

2.32

11/02/01 10:21

BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

		_		G '1	_					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0106080 - MeOH Ext

Surr: 4-BFB

Batch 0106080 - MeOH Extraction	on					
Blank (0106080-BLK1)			Prepared &	Analyzed: 06/24	/01	
Benzene	ND	0.0250 mg/kg	wet			
Toluene	ND	0.100 "				
Ethylbenzene	ND	0.100 "				
Xylenes (total)	ND	0.200 "				
Naphthalene	ND	1.00 "				
Surr: 4-BFB	2.23	"	2.50	89.2	50-150	
LCS (0106080-BS1)			Prepared: 06	5/24/01 Analyze	d: 12/25/01	
Benzene	2.14	0.0250 mg/kg	wet 2.50	85.6	69-138	
Toluene	2.15	0.100 "	2.50	86.0	53-151	
Ethylbenzene	2.32	0.100 "	2.50	92.8	61-141	
Xylenes (total)	6.53	0.200 "	7.50	87.1	62-141	
Naphthalene	2.86	1.00 "	2.50	114	65-135	

2.50

North Creek Analytical - Mobile Lab



Reported:

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Project Manager: Anne Kranawetter 11/02/01 10:21

Notes and Definitions

DET Analyte DETECTED

Anchorage, AK 99502-1116

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from:
			\\sisters\elmnt\Report\M106067 FINAL 11 02 01
			1021.mdb
			Default Report (not modified)